FORT HOOD, TX (Operational since April 2017)

This developer-owned project serves power to the Army during normal operations via onsite solar plant and offsite wind farm. The project provides combined onsite / offsite generation, microgrid compatibility, supply diversity, and long-term price stability / cost avoidance.

Lease / In-Kind Consideration combined with Power Purchase Contract

Privately funded, owned, operated, and maintained

15 MW solar generation on 130 acres, 50 MW offsite wind power

REDSTONE ARSENAL, AL (Operational since December 2017)

This developer-owned project serves power to the Army during normal operations. The project provides onsite generation and battery storage for potential microgrid, supply diversity, and long-term price stability / cost avoidance.

Lease / In-Kind Consideration combined with Power Purchase Contract

Privately funded, owned, operated, and maintained

10 MW onsite solar generation on 67 acres &
1 MW / 2 MW-hour battery energy storage system

FORT SILL, OK (Concept, subject to final approvals)

This proposed utility-owned project would serve local Oklahoma customers during normal operations. In the event of a grid outage, the project is conceived to be "islandable" to provide back-up power to the Army until grid power is restored. The project will provide "self-start" capability, onsite generation, controls to dispatch power to microgrid, and supply diversity.

Lease / In-Kind Consideration, Existing Utility Contract

Privately funded, owned, operated, and maintained

36 MW natural gas-fired reciprocating internal combustion engines & 14 MW solar generation on approximately 81 acres

Information as of October 2019

#PowerToWin

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ARMY OEI PORTFOLIO

11
PROJECTS ARE OPERATIONAL

325 MW
NEW ONSITE GENERATION CAPACITY

18 of 22*
PROJECTS BRING SOME ISLANDABLE CAPABILITY FOR CRITICAL MISSIONS FOR A MINIMUM OF 14 DAYS
* Some projects are subject to final Army and/or regulatory approvals.

$627M
ESTIMATED PRIVATE CAPITAL INVESTMENT

U.S. ARMY GARRISON HAWAII

(Operational since May 2018)

This utility-owned project serves customers of the Oahu power grid during normal operations. In the event of a grid outage, the project can be "islanded" to provide back-up power to the Army until grid power is restored. The project is located above tsunami inundation zone, has "black start" capability to restart the Oahu grid, and provides secure power for Schofield Barracks, Field Station Kunia, and Wheeler Army Airfield.

Lease / In-Kind Consideration

Privately funded, owned, operated, and maintained

50 MW multi-fuel generation plant on 8 acres

U.S. ARMY OFFICE OF ENERGY INITIATIVES

SECURING ARMY INSTALLATIONS WITH ENERGY THAT IS RESILIENT, AFFORDABLE, AND SUSTAINABLE

ENERGY RESILIENCE IS A NATIONAL PRIORITY:

"The Secretary of Defense shall ensure the readiness of the armed forces for their military missions by pursuing energy security and resilience. 10 U.S.C. § 2911

HOW THE ARMY OEI PURSUES INSTALLATION ENERGY RESILIENCE

"It is now undeniable that the homeland is no longer a sanctuary....attacks against our critical defense, government, and economic infrastructure must be anticipated."
2018 National Defense Strategy

The Office of Energy Initiatives (OEI) collaborates with industry, public utilities, internal Army organizations, and other stakeholders to improve energy resilience on installations through projects that blend generation, storage, and control capabilities. Energy resilience is vital to Army readiness in a modern conflict. In an increasingly complex world of threats to energy and water supplies, the Army has to anticipate, prepare for, withstand, adapt, and recover rapidly from a range of natural or man-made disruptions.

ARMY LAND & DEMAND

The Army has potentially available land, a high demand for power, and a need to ensure energy resilience on installations to sustain critical missions.

CONTRACT AUTHORITIES

Army OEI weaves together acquisition and real estate authorities to develop comprehensive energy resilience solutions that optimize resources and are beneficial to all stakeholders.

INDUSTRY

Private industry can potentially utilize Army land for siting of commercial energy assets in exchange for providing the Army with first right to power in the event of an electrical grid outage.

NOTIONAL INSTALLATION

THESE AUTHORITIES AND DEAL COMPONENTS CAN BE COMBINED OR PURSUED INDEPENDENTLY.

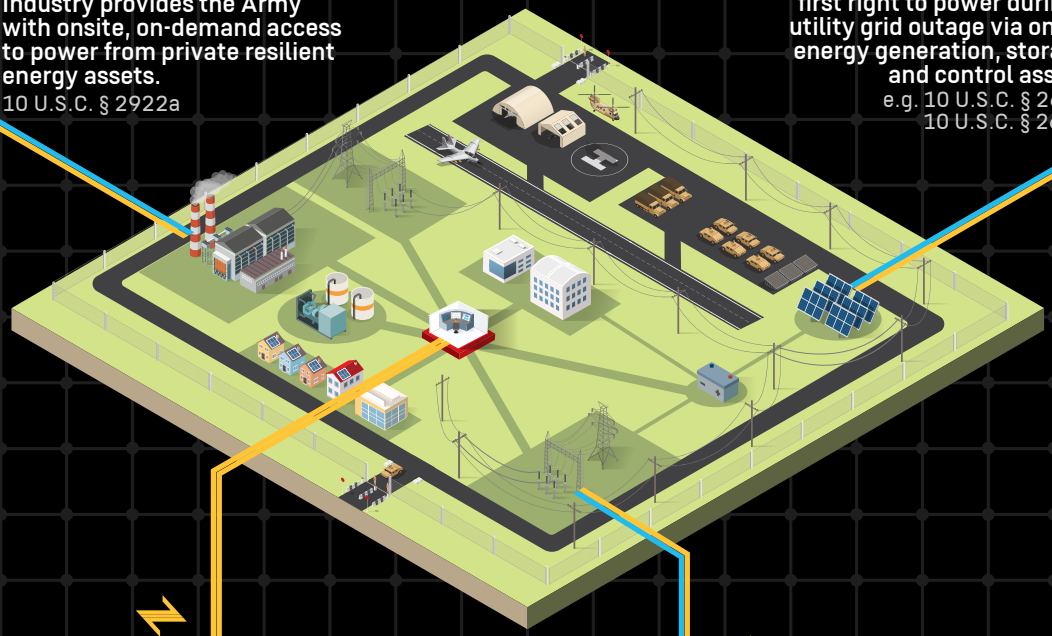
ARMY RESOURCES ⇄ INDUSTRY RESOURCES

POWER PURCHASE CONTRACT:
Energy generated by privately owned assets is purchased by the Army.

ENERGY ASSETS / SERVICES:
Industry provides the Army with onsite, on-demand access to power from private resilient energy assets.
10 U.S.C. § 2922a

REAL ESTATE OUTGRANT (e.g. LEASE, EASEMENT):
Army may consider a real estate outgrant of land to Industry for onsite development of commercial, grid-serving power generation and/or energy storage.

IN-KIND CONSIDERATION:
Industry provides the Army with first right to power during a utility grid outage via onsite energy generation, storage, and control assets.
e.g. 10 U.S.C. § 2667, 10 U.S.C. § 2668



ARMY PROCURED CONSTRUCTION / EQUIPMENT (e.g. MILITARY CONSTRUCTION, ENERGY RESILIENCE AND CONSERVATION INVESTMENT PROGRAM (ERCIP)):
Army owned energy resilience capabilities, such as microgrid controls and intertie connections, are procured using appropriated funding from Congress.
e.g. 10 U.S.C. § 2914, 10 U.S.C. § 2802

UTILITY ENERGY SERVICE CONTRACT (UESC) / ENERGY SAVINGS PERFORMANCE CONTRACT (ESPC):
Army leverages private sector expertise to restore energy equipment.

ENERGY ASSETS / SERVICES:
Utility / energy service company provides Army with modernized infrastructure and pays upfront costs - which the Army repays over the course of the contract from savings.
10 U.S.C. § 2913 / 42 U.S.C. § 8287 et seq.

ARMY OEI DIRECTLY SUPPORTS THE ARMY'S EFFORTS TO IMPROVE READINESS, MODERNIZATION & REFORM.